



AZ CO TOWN OF SAHUARITA

DODEpartment of Public Works

2012 Միարorandum UPRR Coordination

RR-03639A-12-0338

DATE:

April 30, 2012

TO: FROM:

Alexander Popovici – Union Pacific Railroad
Joel Harris - Town of Sahuarita, Civil Engineer

RE:

MARTIN ROAD - PUBLIC AT-GRADE CROSSING

UPRR MP 23.59 - NOGALES SUBDIVISION, DOT CROSSING #742-137T

Union Pacific Railroad (UPRR) and Arizona Corporation Commission (ACC) Railroad Safety Staff have notified the Town of Sahuarita of their mutual desire to close the existing Martin Road public at-grade crossing of the Nogales Subdivision tracks at UPRR MP 23.59.

This memo is intended to capture the Town's understanding of the closure request, as well as outline important issues the Town would like to introduce for consideration during the process required to formally close the existing crossing. The Town is not opposed to UPRR initiating the appropriate notifications/procedures to seek input from all stakeholders and provide an opportunity to determine a mutually acceptable resolution for the proposed closure. The Town has been able to gather the following data pertaining to the existing public crossing:

MARTIN ROAD - PUBLIC AT-GRADE CROSSING INFORMATION

1. LOCATION:

- UPRR MP 23.59 Nogales Subdivision
- Town of Sahuarita -- North-West corner of Madera Highlands Residential Subdivision:
 - South of Quail Crossing Boulevard (DOT#748-177L -- UPRR MP 22.82)
 - 0.82± miles along Nogales Highway (1.26 miles along Campbell Avenue)
 - North of Madera Highlands Parkway (DOT#748-402B UPRR MP 24.84)
 - 1.32± miles along Nogales Highway (1.69 miles along Campbell Avenue)

2. EXISTING CROSSING CONFIGURATION/INFORMATION

- FRA US DOT Crossing Inventory indicates (see Attachment D):
 - Effective Begin-Date of record: January 1, 1970
 - Established as a public at-grade crossing with Southern Pacific Transportation
 - Likely established with Pima County, prior to the Town's annexation of the public ROW
- Existing UPRR Facilities (see photos Attachment A):
 - o (1) Nogales subdivision main track and (1) additional Siding track
 - o Concrete surface panels at track crossings
 - Vehicular Traffic Control:
 - Cross-bucks and Stop Signs in each direction
- Existing Martin Road features (see photos Attachment A):
 - o 2-lane dirt road
 - o Asphalt apron adjacent to concrete surface panels at track crossing

Arizona Corporation Commission

DOCKETED

DCT 1 7 2017

DOCKETED BY

3. UPRR/ACC CONCERNS/REASONING FOR CLOSURE REQUEST

- The existing crossing configuration:
 - o Does not include gates, signals, bells, or warning lights for vehicular traffic
 - o Is regularly impeded/blocked by trains parked on the siding track
 - o Includes a dirt road that is infrequently traveled on by the public
- It is the opinion of UPRR and ACC staff that the existing at-grade crossing is a highly unsafe condition for the traveling public and the circumstances are favorable for a closure due to the following:
 - o Low vehicular usage
 - Lack of vehicular traffic control/warning devices when a train is approaching
 - UPRR and TOS liabilities associated with a primitive crossing
 - Two modern/signalized at-grade crossings are located at Quail Crossing Boulevard and Madera Highlands Parkway for access to the Madera Highlands subdivision. These two modern crossing provide improved access to neighborhoods east of Nogales Highway.

4. CONSIDERATIONS IMPORTANT TO TOWN OF SAHUARITA IN RESPONSE TO UPRR'S REQUEST

- Appropriate notification to all users/stakeholders that use the existing crossing
 - Adherence to a standard/typical ACC hearing process including appropriate stakeholder participation/input in ACC closure process.
- Consideration of closure towards future at-grade crossing improvements within the Town limits
 - The Town would like to memorialize the closing as credit towards the UPRR 2-for-1 policy if/when a new at-grade crossing improvement is needed within the Town limits.
- Evaluation/consideration of potential eligibility towards a "UPRR Quiet Zone", as part of closure

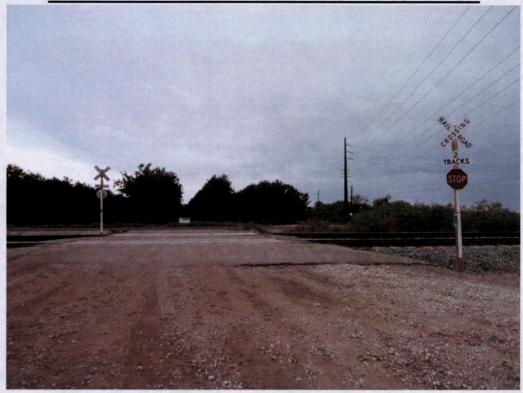
5. EXISTING CROSSING - KNOWN USERS (NOT INTENDED TO EXCLUDE OTHER UNKNOWN USERS)

- UPRR/TOS
- Traveling Public (per 60' Public ROW)
- Emergency Responders (per 20' Emergency Access Easement See Attachment C)
- Maintenance Personnel (per 60' Public ROW, and Common Area A See Attachment C))
- Utility Providers (See Attachment A, B, & C)
 - o Pima County Regional Wastewater Reclamation Department (PCRWRD)
 - Sewer line within crossing (per public sewer easement)
 - o Tucson Electric Power (TEP)
 - Overhead Power line near crossing (per electric easement)
 - Century Link (CTL formerly Qwest)
 - Underground communication facilities near crossing (per public ROW)
 - Southwest Gas
 - Underground natural gas facilities near crossing (per gas easement)

ATTACHMENTS TO THIS MEMO

- A. FIELD PHOTOS EXISTING CONDITION
- B. PCRWRD EXISTING SEWER ALIGNMENT INFORMATION
- C. PAGE FROM MADERA HIGHLANDS FINAL PLAT (SHOWING EXISTING EASEMENTS/ROW)
- D. U.S. DOT CROSSING INVENTORY INFORMATION (as of 4/17/2012) From FRA Office of Safety Analysis Website (http://safetydata.fra.dot.gov/OfficeofSafety/PublicSite/Crossing/Crossing.aspx)

ATTACHMENT A: FIELD PHOTOS – EXISTING CONDITION



Existing Public At-Grade Crossing DOT#742-137T - Looking West Existing TEP Overhead Electric Lines running parallel to Martin Road crossing



Existing Concrete Surface Panels at DOT#742-137T - Looking West

ATTACHMENT A (continued): FIELD PHOTOS – EXISTING CONDITION



Existing Public At-Grade Crossing DOT#742-137T - Looking East Existing PCRWRD Sewer Manhole



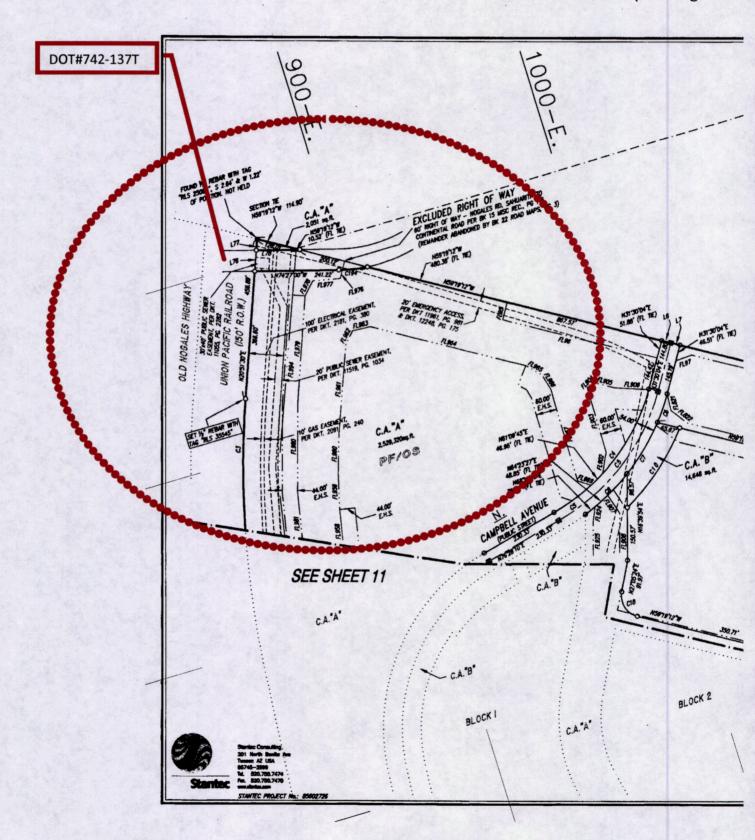
Existing Public At-Grade Crossing DOT#742-137T - Looking West
Existing Century Link Underground Communication & TEP Overhead Electric Lines near crossing

ATTACHMENT B: PCRWRD - EXISTING SEWER ALIGNMENT INFORMATION

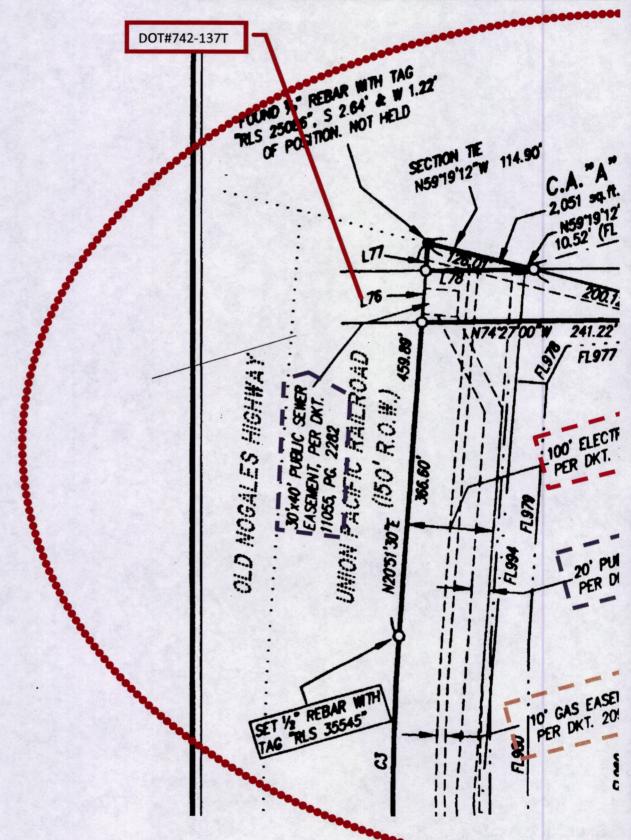
DOT#742-137T

ATTACHMENT C: PAGE FROM MADERA HIGHLANDS

(See larger exh



ATTACHMENT C (continued): PAGE FROM MADERA HIGHL



U.S. DOT - CROSSING INVENTORY INFORMATION AS OF 4/17/2012

Crossing No.: 7421377 Update Reason: Changed Crossing Effective Begin-Date of Record: 01/01/11

Railroad: UP Union Pacific RR Co. [UP] End-Date of Record:

Initiating Agency Rallroad Type and Position: Public At Grade

Part I Location and Classification of Crossing

Division: TUCSON State: AZ
Subdivision: GILA County: PIMA

Branch or Line Name: BR-NOGALES City: Near GREEN VALLEY
Railroad Milepost: 1007.92 Street or Road Name: MARTIN RD
RailRoad I.D. No.: BAN 1007.9 Highway Type & No.: COUNTY

Nearest RR Timetable Stn: CONTINENTAL HSR Corridor ID:

Parent Railroad: County Map Ref. No.: 37

Crossing Owner:

Latitude: 31.8851314

ENS Sign Installed:
Longitude: -110.9683650

Passenger Service:
Lat/Long Source: Actual

Avg Passenger Train Count: 0 Quiet Zone: No

Adjacent Crossing with Separate Number

Private Crossing Information:

Category: Public Access:
Specify Signs: Specify Signals:

ST/RRA ST/RRB ST/RRC ST/RRD

Railroad Use

State Use:

Narrative:

Emergency Contact: (800)848-8715 Railroad Contact: State Contact: (602)712-6193

Part II Railroad Information

Number of Daily Train Movements:

1 Less Than One Movement Per Day:

No Total Trains:

3 Total Switching:

0 Day Thru:

2 Typical Speed Range Over Crossing: From

15 to 25 mph

Maximum Time Table Speed:

40

Type and Number of Tracks: Main: 1 Other 0 Specify:

Does Another RR Operate a Separate Track at Crossing?

No Does Another RR Operate Over Your Track at Crossing?

No

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing 742137T

Continued

Effective Begin-Date of Record: 01/01/11

0

End-Date of Record:

Part III: Traffic Control Device Information

Signs:

Crossbucks: Advanced Warning:

No

0

Highway Stop Signs: **Hump Crossing Sign:**

Pavement Markings:

No Markings

Other Signs: 0

Specify:

Train Activated Devices:

Gates

Mast Mounted FL: Cantilevered FL (Over): Other Flashing Lights: 0 0

Highway Traffic Signals: Other Train Activated Warning Devices:

Track Equipped with Train Signals?

Channelization:

4 Quad or Full Barrier: Total Number FL Pairs:

Cantilevered FL (Not over): Specify Other Flashing Lights:

0

Bells: 0

0

Special Warning Devices Not

Train Activated.

Type of Train Detection:

None

Traffic Light

Wigwags:

Interconnection/Preemption:

Part IV: Physical Characteristics

Type of Development:

Number of Traffic Lanes Crossing Railroad:

No

NA

Open Space

Crossing Surface: UnConsolidated

Is Highway Paved?

Nearby Intersecting Highway?

Does Track Run Down a

Ma

Is Commercial Power Available? Yes

Smallest Crossing Angle:

Are Truck Pullout Lanes Present?

No

60 to 90 Degrees

If Other:

Is it Signalized?

is Crossing Illuminated?

Part V: Highway Information

Highway System:

Non-Federal-aid

Functional Classification of Road at Crossing:

Rural Local

is Crossing on State Highway System:

Treffic (AADT)

Annual Average Daily

No 000050

AADT Year:

1988

Estimated Percent Trucks: Posted Highway Speed:

40

Avg. No of School Buses per Day:

0

U.S. DOT - CROSSING INVENTORY INFORMATION AS OF 4/17/2012

Crossing No.: 742137T Railroad

Update Reason: Changed Crossing

Effective Begin-Date of Record: 03/28/88 End-Date of Record:

Initiating Agency Rattroad

UP Union Pacific RR Co. [UP] Type and Positiion: Public At Grade

12/31/10

Part I Location and Classification of Crossing

Division:

TUCSON

State:

AZ PIMA

Subdivision: Branch or Line Name: GILA **BR-NOGALES** County: City:

Near GREEN VALLEY

Railroad Milepost:

1007.92

Street or Road Name:

MARTIN RD

RailRoad I.D. No.:

BAN 1007.9

Highway Type & No.:

COUNTY

Nearest RR Timetable Stn: Parent Railroad:

CONTINENTAL

HSR Corridor ID: County Map Ref. No.:

Crossing Owner:

Latitude:

31.8851314

ENS Sign installed:

Longitude:

Quiet Zone:

-110.9683650

Passenger Service:

Lat/Long Source:

Actual

Avg Passenger Train Count: 0 Adjacent Crossing with

Private Crossing Information:

Category:

Public Access:

Specify Signals:

ST/RR A

Specify Signs

ST/RR B

ST/RR C

ST/RR D

Railroad Use:

State Use:

Narrative:

Emergency Contact: (800)848-8715

Railroad Contact:

State Contact:

(602)712-6193

Part II Railroad Information

Number of Daily Train Movements:

Less Than One Movement Per Day: No

3 Total Switching: 0

Typical Speed Range Over Crossing: From

15 to 25 mph Maximum Time Table Speed:

Day Thru:

40

Other 0

Type and Number of Tracks:

Main: 1

Specify:

Does Another RR Operate a Separate Track at Crossing? Does Another RR Operate Over Your Track at Crossing?

No No

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing	742137T	Continued	Effective Begin-Date of Record:	03/28/88
			End-Date of Record:	12/31/10

Part III: Traffic Control Device Information

Signs:

	-			
	Crossbucks:	2	Highway Stop Signs:	O
	Advanced Warning:	Varning: No Hump Crossing Sign:		
	Pavement Markings:	No Markings	Other Signs: 0	Specify:
			0	
Ti	ain Activated Devices:			
	Gates:	0	4 Quad or Full Barrier:	
	Mast Mounted FL:	0	Total Number FL Pairs:	0
	Cantilevered FL (Over):	0	Cantilevered FL (Not over)	: 0
	Other Flashing Lights:	0	Specify Other Flashing Lig	hts:
	Highway Traffic Signals:	0	Wigwags: 0	Bells: 0
	Other Train Activated Warning Devices:		Special Warning Devices I Train Activated:	lot
	Channelization:		Type of Train Detection:	None
	Track Equipped with Train Signals?	No	Traffic Light Interconnection/Preemption	n:

Part IV: Physical Characteristics

Type of Development:	Open Space	Smallest Crossing Angle:	60 to 90 Degrees
Number of Traffic Lanes Crossing Railroad;	2	Are Truck Pullout Lanes Present?	No
Is Highway Paved?	No		
Crossing Surface:	UnConsolidated	If Other:	
Nearby Intersecting Highway?	A/A	ls it Signalized?	
Does Track Run Down a Street?	No	Is Crossing Illuminated?	
Is Commercial Power Availab	ole? Yes		

Part V: Highway Information

Highway System:	Non-Federal-ald	Functional Classification of	Rural Local	
ls Crossing on State Highway System:	No	Road at Crossing:		
Annual Average Daily Traffic (AADT):	000050	AADT Year:	1988	
Estimated Percent Trucks:	40	Avg. No of School Buses per Day:	0	
Posted Highway Speed:	0			

U.S. DOT - CROSSING INVENTORY INFORMATION AS OF 4/17/2012

Crossing No.: 7421377 Update Reason: Changed Crossing Effective Begin-Date of Record: 09/01/82
Railroad: SP Southern Pacific Transportation Co. (SP) End-Date of Record: 03/27/88

Initiating Agency State Type and Position: Public At Grade

Part I Location and Classification of Crossing

Division: TUCSON State: AZ
Subdivision: GILA County PIMA

 Branch or Line Name:
 BR-NOGALES
 City:
 Near GREEN VALLEY

 Railroad Milepost:
 1007.92
 Street or Road Name;
 MARTIN RD

 RailRoad I.D. No.:
 BAN 1007.9
 Highway Type & No.:
 COUNTY

Nearest RR Timetable Stn: CONTINENTAL HSR Corridor ID:

Parent Railroad: County Map Ref. No.: 37

Crossing Owner:

ENS Sign Installed:

Passenger Service:

Avg Passenger Train Count:

0

Lat/Long Source:

Quiet Zone:

Avg Passenger Train Count: 0
Adjacent Crossing with

mark and a mark and a second and a second as

State Use:

Private Crossing Information:

Category: Public Access:
Specify Signs: Specify Signals:

ST/RR A ST/RR B ST/RR C ST/RR D

Railroad Use:

Narrative:

Emergency Contact: Railroad Contact: State Contact:

Part II Railroad Information

Number of Daily Train Movements: Less Than One Movement Per Day: Mo
Total Trains: 2 Total Switching: 6 Day Thru: 1
Typical Speed Range Over Crossing: From 15 to 25 mph Maximum Time Table Speed: 25

Type and Number of Tracks: Main: 1 Other 0 Specify:

Does Another RR Operate a Separate Track at Crossing? No
Does Another RR Operate Over Your Track at Crossing? No

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing	742137T	Continued	Effective Begin-Date of Record:	09/01/82
			End-Date of Record:	03/27/88

Part III: Traffic Control Device Information

Crossbucks:	2	Highway Stop Signs:	0
Advanced Warning:	No	Hump Crossing Sign:	
Pavement Markings:	No Markings	Other Signs: 0	Specify:
		0	
Train Activated Devices:			
Gates:	0	4 Quad or Full Barrier:	
Mast Mounted FL:	0	Total Number FL Pairs:	0
Cantilevered FL (Over):	0	Cantilevered FL (Not ove	r): 0
Other Flashing Lights:	0	Specify Other Flashing Li	ghts:
Highway Traffic Signals:	0	Wigwegs: 0	Bells: 0
Other Train Activated Warning Devices:		Special Warning Devices Train Activated:	Not
Channelization:		Type of Train Detection:	None
Track Equipped with Train Signals?	No	Traffic Light	on.

Part IV: Physical Characteristics

Type of Development:	Open Space	Smallest Crossing Angle:	60 to 90 Degrees
Number of Traffic Lanes Crossing Railroad;	2	Are Truck Pullout Lanes Present?	No
Is Highway Paved?	No		
Crossing Surface:	UnConsolidated	If Other:	
Nearby Intersecting Highway?	N/A	Is it Signalized?	
Does Track Run Down a Street?	No	Is Crossing Illuminated?	

Part V: Highway Information

Is Commercial Power Available? Yes

Highway System:			Rural Local	
ls Crossing on State Highway System:	No	Road at Crossing:		
Annual Average Daily Traffic (AADT):	000050	AADT Year:		
Estimated Percent Trucks:	40	Avg. No of School Buses per Day:	0	
Posted Highway Speed:	o			

U.S. DOT - CROSSING INVENTORY INFORMATION AS OF 4/17/2012

Crossing No.: 7421377

Update Reason: New Crossing

Effective Begin-Date of Record: 01/01/70 End-Date of Record:

08/31/82

Railroad: Initiating Agency Original

SP Southern Pacific Transportation Co. [SP]

Type and Positiion: Public At Grade

Part I Location and Classification of Crossing

Division: Subdivision: TUCSON

GHA

State:

AZ

Branch or Line Name:

BR-NOGALES

County: City:

PIMA Near GREEN VALLEY

Railroad Milepost:

1007.92

Street or Road Name: Highway Type & No.:

RailRoad I.D. No.: Nearest RR Timetable Stn: BAN1007.92

COUNTY

Parent Railroad:

CONTINENTAL

HSR Corridor ID:

County Map Ref. No.: 11

Crossing Owner: ENS Sign Installed:

Passenger Service:

Latitude: Longitude:

Lat/Long Source:

Avg Passenger Train Count: 0 Adjacent Crossing with

Separate Number

Quiet Zone:

Private Crossing Information:

Category:

Public Access:

Specify Signs:

Specify Signals:

ST/RR D

ST/RR A

ST/RR B

ST/RR C

Railroad Use: State Use:

Narrative:

Emergency Contact:

Railroad Contact:

State Contact:

Part II Railroad Information

Number of Daily Train Movements:

Less Than One Movement Per Day:

2

Total Switching: 0

15 to 25 mph

Day Thru: Maximum Time Table Speed:

25

Typical Speed Range Over Crossing: From Type and Number of Tracks:

Main: 1

Other 0

Specify

Does Another RR Operate a Separate Track at Crossing? Does Another RR Operate Over Your Track at Crossing?

No No

U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing 7421377

Continued

Effective Begin-Date of Record: 01/01/70

End-Date of Record:

08/31/82

Part III: Traffic Control Device Information

Signs:

Crossbucks: Advanced Warning: No Highway Stop Signs: Hump Crossing Sign: 0

Pavement Markings:

No Markings

Other Signs: 0 Specify:

Train Activated Devices

Gatec O Mast Mounted FL: Cantilevered FL (Over):

4 Quad or Full Barrier: Total Number FL Pairs: Cantilevered FL (Not over):

0

Other Flashing Lights: Highway Traffic Signals:

Specify Other Flashing Lights: 0 0 Wigwags:

Bells: 0

Other Train Activated Warning Devices:

Special Warning Devices Not Train Activated:

Channelization

Type of Train Detection: Traffic Light

None

Track Equipped with

Train Signals?

Interconnection/Preemption:

Part IV: Physical Characteristics

Type of Development:

Open Space

Smallest Crossing Angle

60 to 90 Degrees

Number of Traffic Lanes Crossing Railroad:

No

Are Truck Pullout Lanes Present?

Mo

Is Highway Paved? Crossing Surface:

UnConsolidated

If Other

Nearby Intersecting

N/A

Is it Signalized?

Does Track Run Down a

No

is Crossing Illuminated?

Is Commercial Power Available? Yes

Part V: Highway Information

Highway System:

Non-Federal-aid

Functional Classification of

Road at Crossing

Rural Local

is Crossing on State Highway System: Annual Average Daily

Treffic (AADT):

No

000050

AADT Year:

Estimated Percent Trucks:

40

Avg. No of School Buses per Day:

Posted Highway Speed: